

What is claimed is:

1. A device for monitoring the environment of a vehicle being parked, having at least one video camera that has one vision field, and having a video display unit (55) for representing the vision field, wherein the vision field relative to the vehicle is unchangeably specified and at least one object-detection sensor is provided for detecting objects in an area that is outside of and directly adjacent to the vision field, so that, via at least one display unit (6; 55), the driver can be informed concerning the existence of objects that are not located in the vision field of the camera.
2. The device as recited in Claim 1, wherein the existence of objects outside of the vision field can be represented in edge areas (13, 14) of the video display unit (55).
3. The device as recited in one of the preceding claims, wherein the object-detection sensors are connected to an object-detection unit (30), which at the same time is connected to an image processing unit for the selected digital image processing of the images of the video camera, so that objects in the vision field of the video camera can also automatically be detected and can be communicated to the driver.
4. The device as recited in Claim 3, wherein objects detected by the object-detection unit (30) can be modeled using simple geometric forms, and the geometric forms (115) can be superimposed on the video image using a downstream superimposition unit (40).
5. The device as recited in one of the preceding claims, wherein a maneuver calculating unit (50) is provided for the further processing of external parameters, especially the

instantaneous steering angle, so that in the video display unit (55) an actual-steering-angle display (17) can be carried out.

6. The device as recited in Claim 3 and 5, wherein the maneuver calculating unit (50) can be supplied data by the object-detection unit (30) concerning detected objects, so that the maneuver calculating unit (50) can calculate a parking maneuver on the basis of this data.

7. The device as recited in Claim 6, wherein the parking maneuver can be represented in the video display unit (55) in the form of a steering angle suggestion (17).

8. The device as recited in Claim 6 or 7, wherein the maneuver calculating unit (50) is connected to a control unit (90) for automatically executing a parking maneuver.

9. The device as recited in Claim 8, wherein the maneuver calculating unit (50) has a storage means for storing standard parking maneuvers, especially parking in a private garage, so that when the corresponding environment is detected by the object-detection unit (30), the standard parking maneuver can be called up for automatically executing the parking maneuver.

10. The device as recited in one of the preceding claims, wherein the object-detection sensors are ultrasound, radar, or lidar sensors.

11. The device as recited in Claim 3, wherein, using the object-detection unit (30), the distances to detected objects can be calculated, so that the numerical values of the distances can be overlaid in the video display unit (55).

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